

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Application of: Huang, Chin-Shiou

Serial No.: To be assigned

Group Art Unit: To be assigned

Filed: October 3, 2001

Examiner: To be assigned

For: Compositions and Methods For Sufrace
Imprinting

Attorney Docket No.: 10231-025-999

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1. Enclosures accompanying this Information Disclosure Statement are:

- 1a. ☒ A list of all patents, publications, applications, or other information submitted for consideration by the office.
- 1b. A legible copy of :
 - ☐ Each U.S. patent application publication and U.S. and foreign patent;
 - ☐ Each publication or that portion which caused it to be listed on the PTO-1449;
 - ☐ For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion;
 - ☐ all other information or portion which caused it to be listed on the PTO-1449.
- 1c. ☐ An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report.
- 1d. ☐ Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications.

2. ☒ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):
- ☒ Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
 - ☐ Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
 - ☐ Before the mailing of the first Office action on the merits;
 - ☐ Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R. §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.

(Check either Item 3a or 3b)

- 3a. ☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
- 3b. ☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is:
- ☐ enclosed
 - ☐ to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.

(Item 3b to be checked if any reference known for more than 3 months)

4. ☐ This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.

The \$180.00 fee set forth in 37 C.F.R. §1.17(i)(1) is:

- ☐ enclosed.
- ☐ to be charged to Pennie & Edmonds LLP Deposit Account No. 16-1150.

The Certification Statement in Item 5 below is applicable.

5. ☐ Certification Statement *(applicable if Item 3a or Item 4 is checked)*

(Check either Item 5a or 5b)

- 5a. ☐ In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- 5b. ☐ In accordance with 37 C.F.R. §1.97(e)(2), it is certified that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was known by any

individual designated in 37 C.F.R. §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6. ☒ This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).

(Check appropriate Items 6a, 6b and/or 6c)

- 6a. ☐ A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrently filed herewith.
- 6b. ☒ Copies of publications listed on Form PTO-1449 from prior application Serial No. 09/507,299, filed on February 18, 2000, of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).
- 6c. ☐ Copies of the publications listed on Form PTO-1449 were not previously cited in prior application Serial No. , filed on , and are provided herewith.

7. ☐ This is a Supplemental Information Disclosure Statement. *(Check either Item 7a or 7b)*

- 7a. ☐ This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(f) supplements the Information Disclosure Statement filed on _____. A bona fide attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on _____.
- 7b. ☐ This Supplemental Information Disclosure Statement is timely filed within one (1) month of a PTO Notice under 37 C.F.R. §1.97(i).

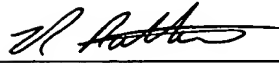
8. ☐ In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:

(Check Item 8a, 8b, or 8c)

- 8a. ☐ satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.
- 8b. ☐ set forth in the application.
- 8c. ☐ enclosed as an attachment hereto.
9. ☒ The Commissioner is authorized to charge any additional fee required or credit any overpayment for this Information Disclosure Statement and/or Petition to Pennie & Edmonds LLP Deposit Account No. 16-1150.
10. ☒ No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than a search report of a foreign counterpart application or PCT International Search Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).

Respectfully submitted,

Date October 3, 2001



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LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

10231-025-999

APPLICATION NO.

To be assigned

APPLICANT

Chin-Shiou Huang

FILING DATE

October 3, 2001

GROUP

To be assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,310,648	05/10/94	Arnold <i>et al.</i>			
	AB	5,372,719	12/13/94	Afeyan <i>et al.</i>			
	AC	5,453,199	09/26/95	Afeyan <i>et al.</i>			
	AD	5,541,342	07/30/96	Korhonen <i>et al.</i>			
	AE	5,587,273	12/24/96	Yan <i>et al.</i>			
	AF	5,630,978	05/20/97	Domb			
	AG	5,641,539	06/24/97	Afeyan <i>et al.</i>			
	AH	5,728,296	03/17/98	Hjertén <i>et al.</i>			
	AI	5,756,717	03/26/98	Paliwal <i>et al.</i>			
	AJ	5,786,428	07/28/98	Arnold <i>et al.</i>			
	AK	5,801,221	09/01/98	Tanaka <i>et al.</i>			
	AL	5,814,223	09/29/98	Hjertén <i>et al.</i>			
	AM	5,821,311	10/13/98	Mosbach <i>et al.</i>			
	AN	5,858,296	01/12/99	Domb			
	AO	5,872,198	02/16/99	Mosbach <i>et al.</i>			
	AP	5,916,445	06/29/99	Hjertén <i>et al.</i>			
	AQ	5,959,050	09/28/99	Mosbach <i>et al.</i>			
	AR	5,994,110	11/30/99	Mosbach <i>et al.</i>			
	AS	6,051,372	04/18/00	Bayerl <i>et al.</i>			
	AT	6,057,377	05/02/00	Sasaki <i>et al.</i>			
	AU	5,110,833	05/05/92	Mosbach			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AV	WO 95/21673	08/17/95	PCT (Mosbach)				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AW	Braun and Kuchen, 1984, "Ionenselektive Austauschharze durch vernetzende Copolymerisation vinylsubstituierter Metallkomplexe," <i>Chemiker-Zeitung</i> 108:255-257 [in German]
	AX	Bystrom <i>et al.</i> , "Selective reduction of steroid 3- and 17-ketones using LiAlH ₄ activated template polymers," 1993, <i>J. Am. Chem. Soc.</i> 115:2081-2083

AY	Cormack and Mosbach, 1999, "Molecular imprinting: recent developments and the road ahead," <u>Reactive and Functional Polymers</u> 41:115-124
AZ	Damen <i>et al.</i> , 1980, "Stereoselective Synthesis via a Photochemical Template Effect," <u>J. Am. Chem. Soc.</u> 102:3265-3267
BA	Dickert and Hayden, 1999, "Imprinting with sensor development - On the way to synthetic antibodies," <u>Fresenius J. Anal. Chem</u> 364:506-511
BB	Dickey, 1949, "The preparation of specific adsorbents," <u>Proc. Natl. Acad. Sci. U.S.A.</u> 35:227-229
BC	Kempe, 1996, "Antibody-mimicking polymers as chiral stationary phases in HPLC," <u>Analytical Chemistry</u> 68(11):1948-1953
BD	Sellergren, 1994, "Imprinted dispersion polymers: a new class of easily accessible affinity stationary phases," <u>Journal of Chromatography</u> 673:133-141
BE	Spivak and Shea, 1998, "Binding of nucleotide bases by imprinted polymers," <u>Macromolecules</u> 31:2160-2165
BF	Stix, 1999, "Parsing cells," <u>Scientific American</u> July 1999:35-36
BG	Uezu <i>et al.</i> , 1999, "Molecular recognition using surface template polymerization," <u>Chemtech</u> 29(4):12-18
BH	Wulff <i>et al.</i> , 1985, "Enzyme-analogue built polymers, 18: Chiral cavities in polymer layers coated on wide-pore silica," <u>Reactive Polymers</u> 3:261-2757
BI	Wulff, 1998, "Fitting molecules into polymeric receptors," <u>Chemtech</u> 28:19-26
BJ	Yoshida <i>et al.</i> , 1999, "Metal ion imprinted microsphere prepared by surface molecular imprinting technique using water-in-oil-in-water emulsions," <u>J. Appl. Polym. Sci.</u> 73:1223-1230
BK	Yu and Mosbach, 1997, "Molecular imprinting utilizing an amide functional group for hydrogen bonding leading to highly efficient polymers," <u>J. Org. Chem.</u> 62(12):4057-4064
BL	Peppas <i>et al.</i> , 1999, Poly(ethylene glycol)-containing hydrogels in drug delivery <u>Journal of Controlled Release</u> 62: 81-87
BM	Markowitz <i>et al.</i> , 2000, Catalytic Silica Particles via Template-Directed Molecular Imprinting <u>Langmuir</u> 16: 1759-1765

EXAMINER	DATE CONSIDERED
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with **MPEP 609**; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.